

CLAIMS

What is claimed is:

1. A self-propelled riding mower comprising:
 - a frame supported upon a plurality of ground engaging wheels;
 - a first electrical power source;
 - a plurality of mowers supported from said frame, said mowers being moveable between a raised non-operative position and a lowered operative position, said mowers being driven by electric motors receiving electrical power from said first electrical power source;
 - a prime mover comprising an electric motor supplied with electrical energy from said first electrical power source and adapted to provide driving torque to at least one of said ground engaging wheels;
 - a second electrical power source; and
 - a trailer including a platform supported upon a plurality of ground engaging wheels for carrying said second electrical power source behind said frame, said trailer interconnected to said frame by a hitch.
2. The self-propelled riding mower of claim 1 further comprising:
 - an electrical connection between said first electrical power source and a control circuit; and
 - an electrical connection between said second electrical power source and said control circuit.

3. The self-propelled riding mower of claim 1 further comprising;
a support for said first electrical power source on said mower, engaging and disengaging said frame to facilitate removal and installation of at least a portion of said first electrical power source.

4. The self-propelled riding mower of claim 1 wherein said support further comprises a tray supporting said power source and a guide fixed to said frame, where said tray engages said guide to align said tray and to facilitate removal and installation of said tray.

5. The self-propelled riding mower of claim 1 wherein said frame further comprises friction reducing means disposed beneath said support such that said support engages said friction reducing means during installation onto and removal from said frame.

6. The self-propelled riding mower of claim 1 wherein said first electrical power source comprises a battery power source.

7. The self-propelled riding mower of claim 1 wherein said first electrical power source comprises a motor/generator set.

8. The self-propelled riding mower of claim 1 wherein said first electrical power source comprises a fuel cell.

9. The self-propelled riding mower of claim 1 wherein said second electrical power source comprises a battery power source.

10. The self-propelled riding mower of claim 1 wherein said second electrical power source comprises a motor/generator set.

11. The self-propelled riding mower of claim 1 wherein said second electrical power source comprises a fuel cell.

12. The self-propelled riding mower of claim 1 wherein said second electrical power source comprises a battery power source and a motor/generator set.

13. The self-propelled riding mower of claim 12 wherein said motor/generator set and said battery power source are vertically arranged, one on top of the other.